

## B-200 (UC-12B) - LARC 11/06/12

Aircraft: [B-200 \(UC-12B\) - LARC](#) ([See full schedule](#))

Flight Number: DAWN R-005

Payload Configuration: DAWN Wind Profiler LIDAR

Nav Data Collected: No

Total Flight Time: 1.9 hours

Submitted by: Michael S. Wusk on 11/06/12

Flight Segments:

From:	LFI	To:	LFI
Start:	11/06/12 13:02 Z	Finish:	11/06/12 14:57 Z
Flight Time:	1.9 hours		
Log Number:	<a href="#">13B007</a>	PI:	Michael Kavaya
Funding Source:	Bruce Fisher - NASA - SMD - ESD LARC Chief Engineer, Research Services Directorate		
Purpose of Flight:	Science		
Comments:	<p>Flew an over ocean wind flight profile, starting at 5,000'. Lower clouds covered good portion of the NW corner of the pattern. Eventually climbed to 10,000' to try and help keep the instrument cold. Even at 10k' the instrument was getting too warm and eventually the science was terminated due to the instrument condition. Ironically when the outside air is below 50 F the aircraft air-conditioning compressor locks out so it doesn't ice over. This means there is no aircraft cooling for the instrument early in the flight on days like today where the surface ambients are below or near 50 F. Once the instrument warmed up, the climb to higher altitude (and colder outside ambients) did not provide enough cooling for the instrument to recover. The research team is working on ideas to address this issue for future flights. The team still gathered some good data for about an hour of the flight. Next possible flight is set for Friday Nov 9th.</p>		

Images:

### DAWN Flight Crew



[Read more](#)

Flight Hour Summary:

	<b>13B007</b>
Flight Hours Approved in SOFRS	25
Total Used	21.9
Total Remaining	3.1

#### 13B007 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">10/22/12</a>	DAWN I-001	Science	1.5	1.5	23.5	
<a href="#">10/24/12</a>	DAWN I-002	Science	2.7	4.2	20.8	
<a href="#">11/01/12</a>	DAWN R-003	Science	2.3	6.5	18.5	
<a href="#">11/02/12</a>	DAWN R-004	Science	2.3	8.8	16.2	
<a href="#">11/06/12</a>	DAWN R-005	Science	1.9	10.7	14.3	
<a href="#">11/16/12</a>	DAWN R-006	Science	2.6	13.3	11.7	

<a href="#">11/20/12</a>	DAWN R-007	Science	3.5	16.8	8.2
<a href="#">11/26/12</a>	DAWN R-008	Science	2.8	19.6	5.4
<a href="#">11/28/12</a>	DAWN R-009	Science	2.3	21.9	3.1

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

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